

CLEAN COPY OF CLAIMS

4. A protein containing the amino acid sequence

R T E I A T K N F P V S T T I S K S F F A
P E P R I Q P S F G E N V G K E G A L L F
S V N L T V P E N V S Q V T V Y P V Y D E
D Y G L G R L V N T A D A S Q S I I Y Q I
V D E K G K K M L K D H G A E V T P N Q Q
I T F K A L N Y T S G E K K I S P G I Y N
D Q V M V G Y Y V N. (SEQ. ID No. 9)

5. A composition of matter comprising a protein of claim 4 in a pharmaceutically acceptable carrier.

6. A protein containing the sequence:

GNWQYKSLDV NVNIEQNFIP DIDSAVRIIP VNYDSDPKLD SQLYTVEMTI
PAGVSAVKIA PTDSLTS SGQ QIGKLVN VNN PDQNMNYYIR KDSGAGNFMA
GQKGSFPVKE NTSYTFSAIY TGGEYPNSGY SSGTYAGNLT VSFYSN.

(SEQ. ID No. 10)

7. A composition of matter comprising a peptide of claim 6 in a pharmaceutically acceptable carrier.

14. A peptide of protein containing a sequence at least 60 % homology with the sequence:

GNWQYKSLDV NVNIEQNFIP DIDSAVRIIP VNYDSDPKLD SQLYTVEMTI
PAGVSAVKIA PTDSLTS SGQ QIGKLVN VNN PDQNMNYYIR KDSGAGNFMA
GQKGSFPVKE NTSYTFSAIY TGGEYPNSGY SSGTYAGNLT VSFYSN

(SEQ. ID No. 10) wherein in all instances, the substitutions are conservative.

15. A composition of matter comprising a peptide of claim 14 in a pharmaceutically acceptable carrier.
16. A composition of claim 15 which is a vaccine.
17. A composition of claim 7 which is a vaccine.